



ELSEVIER

Robotics and Autonomous Systems 14 (1995) 317-318

Robotics and
Autonomous
Systems

Author index to volume 14

Bauer, R., *see* Guldner, J. 14 (1995) 133

Berns, K., R. Dillmann and S. Piekenbrock, Neural networks for the control of a six-legged walking machine 14 (1995) 233

Bühler, C., R. Hoelper, H. Hoyer and W. Humann, Autonomous robot technology for advanced wheelchair and robotic aids for people with disabilities 14 (1995) 213

Burschka, D., *see* Magin, G. 14 (1995) 119

Clergue, E., *see* Viéville, T. 14 (1995) 1

Dillmann, R., *see* Berns, K. 14 (1995) 233

Eltze, J., *see* Pfeiffer, F. 14 (1995) 223

Enciso, R., *see* Viéville, T. 14 (1995) 1

Engels, C. and G. Schöner, Dynamic fields endow behavior-based robots with representations 14 (1995) 55

Färber, G., *see* Magin, G. 14 (1995) 119

Feiten, W., *see* Lawitzky, G. 14 (1995) 149

Guldner, J., V.I. Utkin and R. Bauer, A three-layered hierarchical path control system for mobile robots: Algorithms and experiments 14 (1995) 133

Gutsche, R., C. Laloni and F.M. Wahl, MONAMOVE. A flexible transport system for industrial environments using global sensor and navigation concepts 14 (1995) 85

Hertzberger, L.O., Affiliation *Robotics and Autonomous Systems*-IAS Society 14 (1995) v

Härtl, H., Dextrous manipulation with multifingered robot hands including rolling and slipping of the fingertips 14 (1995) 29

Hendriks, A.J., *see* Lyons, D.M. 14 (1995) 255

Hoelper, R., *see* Bühler, C. 14 (1995) 213

Hofner, C. and G. Schmidt, Path planning and guidance techniques for an autonomous mobile cleaning robot 14 (1995) 199

Horn, J. and G. Schmidt, Continuous localization of a mobile robot based on 3D-laser-range-data, predicted sensor images, and dead-reckoning 14 (1995) 99

Hoyer, H., *see* Bühler, C. 14 (1995) 213

Humann, W., *see* Bühler, C. 14 (1995) 213

Jörg, K.-W., World modeling for an autonomous mobile robot using heterogenous sensor information 14 (1995) 159

Kurz, A., ALEF: An autonomous vehicle which learns basic skills and constructs maps for navigation 14 (1995) 171

Laganière, R. and A. Mitiche, Direct Bayesian interpretation of visual motion 14 (1995) 247

Laloni, C., *see* Gutsche, R. 14 (1995) 85

Lawitzky, G., W. Feiten and M. Möller, Sonar sensing for low-cost indoor mobility 14 (1995) 149

Lueth, T.C., U.M. Nassal and U. Rembold, Reliability and integrated capabilities of locomotion and manipulation for autonomous robot assembly 14 (1995) 185

Lyons, D.M. and A.J. Hendriks, Planning as incremental adaptation of a reactive system 14 (1995) 255

Magin, G., A. Ruß, D. Burschka and G. Färber, A dynamic 3D environmental model with real-time access functions for use in autonomous mobile robots 14 (1995) 119

Mathieu, H., *see* Viéville, T. 14 (1995) 1

Mitiche, A., *see* Laganière, R. 14 (1995) 247

Möller, M., *see* Lawitzky, G. 14 (1995) 149

Nassal, U.M., *see* Lueth, T.C. 14 (1995) 185

Pfeiffer, F., J. Eltze and H.-J. Weidemann, Six-legged technical walking considering biological principles 14 (1995) 223

Piekenbrock, S., *see* Berns, K. 14 (1995) 233

Rembold, U., *see* Lueth, T.C. 14 (1995) 185

Ruß, A., *see* Magin, G. 14 (1995) 119

Schmidt, G., Research on autonomous mobile robots (Guest editorial) 14 (1995) 83

Schmidt, G., *see* Hofner, C. 14 (1995) 199

Schmidt, G., *see* Horn, J. 14 (1995) 99

Schöner, G., *see* Engels, C. 14 (1995) 55

Stavrakakis, G.S., *see* Zagorianos, A. 14 (1995) 289

Tzafestas, S.G., *see* Zagorianos, A. 14 (1995) 289

Utkin, V.I., *see* Guldner, J. 14 (1995) 133

Vibet, C., Symbolic modeling of robot kinematics and dynamics 14 (1995) 301

Viéville, T., E. Clergue, R. Enciso and H. Mathieu, Experimenting with 3D vision on a robotic head 14 (1995) 1

Wahl, F.M., *see* Gutsche, R. 14 (1995) 85

Weidemann, H.-J., *see* Pfeiffer, F. 14 (1995) 223

Zagorianos, A., S.G. Tzafestas and G.S. Stavrakakis, On line discrete-time control of industrial robots 14 (1995) 289



ELSEVIER

Subject index to volume 14

Adaption	14 (1995) 255	Neural networks	14 (1995) 233
Adaptive control concept	14 (1995) 233	Neurobiological control of walking	14 (1995) 223
Artificial intelligence	14 (1995) 171	Obstacle avoidance	14 (1995) 149
Automated guided vehicles	14 (1995) 213	Omnidirectional manoeuvrability	14 (1995) 213
Automatic cleaning path planner	14 (1995) 199	Pattern recognition	14 (1995) 171
Automatic sensor application planner	14 (1995) 199	People with disabilities	14 (1995) 213
Autonomous mobile robots	14 (1995) 55	Planning	14 (1995) 255
Autonomous robot	14 (1995) 185	Reacting	14 (1995) 255
Autonomous systems	14 (1995) 171	Real-time feature prediction	14 (1995) 119
Biological walking	14 (1995) 223	Robot dynamics	14 (1995) 301
Classification	14 (1995) 171	Robotic head	14 (1995) 1
Cleaning path adaptation	14 (1995) 199	Robotic symbolic computation	14 (1995) 301
Collision avoidance	14 (1995) 159	Robot kinematics	14 (1995) 301
Computer graphics	14 (1995) 119	Robot planning	14 (1995) 255
Decentralized control	14 (1995) 223	Robots	14 (1995) 255
Dextrous manipulation	14 (1995) 29	Rolling and slipping	14 (1995) 29
3D tracking	14 (1995) 1	<i>RS</i>	14 (1995) 255
Error recovery	14 (1995) 185	Seamless spatial and temporal observation	14 (1995) 85
Experimental validation	14 (1995) 99	Sensor data fusion	14 (1995) 99
Fault tolerance	14 (1995) 185	Sensor fusion	14 (1995) 159
Generation of behaviors	14 (1995) 55	Sensor-specific environment modelling	14 (1995) 119
Geometrical and statistical path planning	14 (1995) 85	Service robots	14 (1995) 213
Global monitoring	14 (1995) 85	Short-term memory	14 (1995) 55
Harmonic potential field	14 (1995) 133	Simulation	14 (1995) 29
Integrating planning and reaction	14 (1995) 255	Six-legged walking	14 (1995) 223
Intelligent autonomous robots	14 (1995) 133	Sonar sensing	14 (1995) 159
Intelligent systems	14 (1995) 213	Spatial indexing	14 (1995) 119
Laserradar	14 (1995) 159	Statistical uncertainty evolution	14 (1995) 99
Learning Systems	14 (1995) 171	Steer angle field	14 (1995) 133
Localisation	14 (1995) 149	Structure and motion	14 (1995) 1
Locomotion	14 (1995) 185	System integration	14 (1995) 55
Long distance path tracking control	14 (1995) 199	Three-layered hierarchical path control	14 (1995) 133
Manipulation	14 (1995) 185	Ultrasonic sensors	14 (1995) 149
Mobile autonomous robots	14 (1995) 149	Ultrasonic transducers	14 (1995) 171
Mobile manipulation	14 (1995) 185	Unified architecture	14 (1995) 55
Mobile robot localization	14 (1995) 99	User interface	14 (1995) 213
Multifinger robot hand	14 (1995) 29	Vehicles	14 (1995) 171
Navigation	14 (1995) 171	Walking machine	14 (1995) 233
Neural dynamics	14 (1995) 55	Walking robot	14 (1995) 223
Neural nets	14 (1995) 171	Wave propagation	14 (1995) 133
		World modeling	14 (1995) 159
		z-buffer projection	14 (1995) 119

